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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,176	02/09/2004	Shaun T. Mesher	355-8	6755
	7590 03/07/200 AMBERT LLP	EXAMINER		
c/o Berger & Altmann 2711 JEFFERSON DAVIS HIGHWAY Suite 401A Airport Plaza One ARLINGTON, VA 22202			METZMAIER, DANIEL S	
			ART UNIT	PAPER NUMBER
			1712	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 03/07/2007		03/07/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/773,176	MESHER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Daniel S. Metzmaier	1712				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period wi - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICAT 6(a). In no event, however, may a reply to ill apply and will expire SIX (6) MONTHS cause the application to become ABAND	TON. be timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 15 Fe	bruary 2007.					
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1,8-10,14,16 and 17</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,8-10,14,16 and 17</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	•					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.05(a).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
Copies of the certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Summ Paper No(s)/Ma					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		al Patent Application (PTO-152)				
U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Office Act	ion Summary	Part of Paper No./Mail Date 20070305				

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DETAILED ACTION

Claims 1, 8-10, 14, and 16-17 are pending.

Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Allowable Subject Matter

2. The indicated allowability of claims 1, 8-10, 14, and 16-17 are withdrawn in view of reconsideration of the case as a whole. Rejections based on the art cited follow.

Claim interpretation

3. The terms "aqueous acid" referred to in claim 8 has been interpreted as the acid and water. The ketones, esters, and cyclic ethers that have been limited to a carbon number range are interpreted as the total carbons in the respective ketones, esters, and cyclic ethers.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 5. Claims 1, 8-10, 14, and 16-17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The aqueous acid

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concentration limitation disclosed as at least 5 wt% or 10 to 50 wt% would only be interpreted as said concentrations of a aqueous acid having 15 wt% of acid in water, which is deemed the only reasonable interpretation of paragraph 10 and the Table in paragraph 12 of the originally filed disclosure. The originally filed disclosure discloses said concentration ranges only in the context of an aqueous solution having 15 wt% of acid.

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- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 7. Claims 1, 8-14, and 16-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The metes and bounds of the claims are indefinite due to the undefined concentration of the aqueous component of the aqueous acid component. A review of paragraph 10 of the instant disclosure indicates that the acid component may be 5-50 % by weight and sets forth as an example a 50 % by weight of an aqueous acid, which is 15 % by weight acid in water. Each of applicants' examples employs aqueous acids having 15 % by weight acid in water.

It is unclear what are the metes and bounds of the claims since the acid component is open to any concentration of acid in water, which has not been disclosed.

In claims 8 and 16, it is unclear whether "the acid" refers to the acid or the aqueous acid.

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Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 10. Claims 1 and 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watkins, US 4,737,296.

Watkins (column 7, lines 33-36; column 8, lines 6-10, 26-32, 51-52, 66 to column 9, line 1; column 9, lines 45) discloses the formation of acid-containing foams for the purpose of cleaning scale out of conduits.

Watkins <u>differs</u> from the claims in the use of a particular combination of solvents and the concentrations thereof.

Watkins (column 7, lines 33-36; column 8, lines 6-10, 26-32, 51-52, 66 to column 9, line 1) contemplates mixtures of solvents including those instantly claimed. Watkins

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(example 16) discloses the use of MEK at about 22 vol% and about 74 vol% acid. The vol% is referenced for simplicity and the wt% of the materials would not vary dramatically therefrom since the materials would have been expected to have specific gravities of about 1.

It is generally *prima facie* obvious to use in combination two or more ingredients that have previously been used separately for the same purpose in order to form a third composition useful for that same purpose. In re Kerkhoven, 626 F.2d 846, 205 USPQ 1069 (CCPA 1980); In re Pinten, 459 F.2d 1053, 173 USPQ 801 (CCPA 1972); In re Susi, 440 F.2d 442, 169 USPQ 423 (CCPA 1971); In re Crockett, 279 F.2d 274, 126 USPQ 186 (CCPA 1960). As stated in Kerkhoven and Crockett, the idea of combining them flows logically from their having been individually taught in the prior art. In the instant case, the ester, ether, and alcohol solvents are all taught for the same function as a mutual solvent of the oil and water. It would have been obvious to one of ordinary skilled in the art at the time of applicants' invention to employ the mixtures in an acid-containing composition for the advantage of matching the solvent system to the system, e.g., sludge and scale, being treated.

The specification does not provide a showing of criticality of the particular solvents and each is specifically recited in the Watkins reference.

Allowable Subject Matter

11. Claims 14 and 16-17 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112 set forth in this Office action.

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12. While Watkins discloses ethers, Watkins lacks an adequate teaching of THF as suitable ether. It is deemed that only with impermissible hindsight would the ordinary skilled artisan select THF from the generic ethers listed on the Watkins reference.

Response to Arguments

13. Applicant's arguments with respect to claims 1-6, 8-14, and 16-17 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Metzmaier whose telephone number is (571) 272-1089. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel S. Metzmaier Primary Examiner

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